

BIM Project Execution Planning - A buildingSMART Alliance Research Project

Interview Questions – Design and Engineering

1. Background Information

- State your name and the name of the company.
 - What is your title/position and what are your responsibilities in the company?
 - What is your company yearly revenue? How many employees do you have?
- Have you already implemented BIM? Y/N
 - How many years of experience do you (personally) have with BIM?
 - How many years of experience does your company have with BIM?

2. BIM Execution Planning

- Have you or your company ever been involved in the development of a BIM Execution Plan on a project? Y/N
 - Yes – Who was involved? What decisions were made? What process did you use to develop the plan? Did you feel this was a valuable activity? Why, or why not? Can we get a copy?
 - No – Are you planning to? Who should be involved; make decisions?

3. Uses of BIM

- Please list functional uses for BIM that are either being implemented, or are uses that you would like to implement in the future. Describe how and why are using BIM for each (Functional Use; Description; Goal/Objective).

- After obtaining a list of uses and their description, then investigate the following for different uses:
 - How do you decide what to include in the model and at what level of detail for achieving the objective (Contents; Level of Detail)?
 - How do you create the model? What process, applications and data exchange/file formats (Modeling Process; Applications; Data Exchange/File Formats)?
 - What team competencies are needed (Team Competencies)?
 - What legal, insurance or contractual items do you consider (Legal/Insurance/Contractual Considerations)?
 - Do you reference additional resources or are you aware of good sources of information related to this use of BIM (Additional BIM Use Resources: Description, Studies, Examples, Software Applications, 3rd Party Vendors)?

4. Organizational Level

- Have you performed an analysis of the impact that BIM has on achieving the tasks that you perform in a project? Y/N
 - What is the impact of BIM on design/engineering (cost, time, overall project delivery time, quality)?
- Has the composition of your design staff changed? Y/N
 - What are new roles that arose with this technology?
- What are critical factors in successful implementation of BIM?
- What issues and concerns are you encountering on projects that incorporate BIM in design? What do you think are the risks emerging with BIM implementation?

5. Project Level: Case Study

- Do you have particular projects that you can identify that have gained significant value through the use of BIM? Y/N
 - If so, what tasks were performed in BIM?
 - Why do you feel there was significant value gained?
 - Would you be willing to share additional information with us regarding the case study, or is the case study documented so that we can review additional details?

6. Concluding Questions

- What is the current trend within your company toward performing more projects with BIM?
- What do you feel are the high value future industry trends in BIM?
- Do you have any additional comments or items that you feel are important to consider?
- Can you refer us to other BIM experts or companies we can interview?

Thank you for your time!